

calculation in accordance to EN 410

039

### Glazing from outside to inside

44.00 mm

<b>pane1</b>	substrate	Guardian Float Glass ExtraClear, 4.00 mm
	coating on pos.2	Guardian ClimaGuard Premium
<b>spacer/gas1</b>		16 mm / air 10%, argon 90%
<b>pane2</b>	substrate	Guardian Float Glass ExtraClear, 4.00 mm
<b>spacer/gas2</b>		16 mm / air 10%, argon 90%
<b>pane3</b>	coating on pos.5	Guardian ClimaGuard Premium
	substrate	Guardian Float Glass ExtraClear, 4.00 mm

### Results

#### **UV :**

transmittance [%] :

$$\tau_{UV} = 20,0$$

#### **light :**

transmittance for standard illuminant D65 [%] :

$$\tau_V = 70,9$$

reflectance for standard illuminant D65 [%] (\*):

$$\rho_V = 15,3$$

reflectance for standard illuminant D65 [%] (\*\*):

$$\rho_V = 15,3$$

general colour rendering index [%] :

$$R_a = 95,7$$

#### **energy :**

solar direct transmittance [%] :

$$\tau_e = 41,8$$

solar direct reflectance [%] (\*):

$$\rho_e = 32,4$$

solar direct reflectance [%] (\*\*):

$$\rho_e = 32,4$$

solar direct absorption [%] (\*):

$$a = 25,8$$

secondary internal heat transfer factor [%] (\*):

$$q_i = 7,5$$

total solar energy transmittance (solar factor) [%] (\*):

$$g = 49,4$$

shading coefficient (=g/0,87) (\*):

$$sc = 0,57$$

thermal conductance (U-value) [W/m<sup>2</sup>K] (EN 673):

$$U_g = 0,6$$

slope [°] :  $\alpha=90,0$

(\*) incident radiation from the outside

(\*\*) incident radiation from the inside

**The calculated values are for orientation only and do not offer any guarantee regarding the fabrication of the un- intended end- product.**

**Glass configurations do not amount to a guarantee of product availability.**